

HABITAT ASSESSMENT:

BURROWING OWL (*Speotyto cunicularia*)

With a Discussion of Planning Species and Biological Issues
for Southwest Area Plan, Subunit 5, French Valley/Lower Sedco Hills
Plus Other Required Elements

Case Number: HANS 02015

Area Surveyed: 5.3 Acres

PROJECT SITE LOCATION:

WINCHESTER QUADRANGLE (USGS 7.5-minute series)
SECTION 28 of TOWNSHIP 6 SOUTH, RANGE 2 WEST

Southwest Corner Keller Road/Winchester Road (Hwy 79)
Murrieta, Riverside County, California
APN 476-010-010

Prepared For:

Milan S. Chakrabarty, M.D.
1003 East Florida Street
Hemet, CA 92544
Phone: (951) 652-2252
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RECEIVED
Environmental Programs Dept.

JUL 01 2010

Prepared By:

Joan R. Callahan, Ph.D.
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Hemet, CA 92546
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Survey Conducted 19 June 2010
Report Completed 23 June 2010

SECTION I.**INFORMATION SUMMARY**

- A. Date Report Prepared: 23 June 2010
- B. Report Title: Habitat Assessment, Burrowing Owl (et alia)
- C. Project Site Location: SW corner Winchester Road and Keller Road
USGS Winchester Quadrangle (7.5')
Township 6S, Range 2W, Section 28
- D. APN: 476-010-010
- E. Case Number: HANS 02015 (PAR 01274)
- F. Report Requested By: Mr. Donald L. Richart
3059 Cambridge Avenue
Hemet, CA 92545
Phone: (951) 846-9325
- G. Project Proponent: Dr. Milan S. Chakrabarty
1003 East Florida Street
Hemet, CA 92544
Phone: (951) 652-2252
- H. Author/Investigator: Dr. Joan R. Callahan
P.O. Box 3140
Hemet, CA 92546
Phone: (909) 234-0749
- I. Report Summary: This 5.3-acre parcel is a recently disked vacant lot with no significant biological resources. An intermittent stream crosses the southern end of the parcel, but no wetland characteristics are discernible. One soil mapped in the site vicinity has a hardpan subsurface layer, but repeated deep disking has disturbed the soil profile, and there is no evidence of recent ponding or vernal pool formation. The parcel is nearly surrounded by roads and developed areas. The absence of cover, combined with frequent disking, makes the site unsuitable as burrowing owl habitat. Subunit 5 planning species are briefly discussed. In the author's opinion, the proposed construction project will have no significant biological impact, and no further studies should be required.

SECTION II. PROJECT AND PROPERTY DESCRIPTION

A. Property Description

This undeveloped 5.3-acre parcel is located at the southwest corner of Winchester Road (Highway 79) and Keller Road in unincorporated Murrieta, Riverside County, California. Adjacent land uses include rural residential development and horse property to the west, Keller Road to the north, Highway 79 to the east, and vacant land to the south.

The site is nearly level, with elevations of 1416 to 1432 feet (432 to 436 meters). An intermittent blueline stream crosses the southern end of the parcel. Soils mapped in the site vicinity include Escondido fine sandy loam (EcC2), Friant fine sandy loam (FwE2), Garretson very fine sandy loam (GaC), Monserate sandy loam (MmB), and Vallecitos loam (VeC2). Permeability for these five soils ranges from very slow to moderately rapid (USDA 1971, Sheet 138), as further discussed in Section IV.

The California Department of Water Resources reports above-average total precipitation of about 17 inches for the Elsinore station during the 12-month period ending in May 2010.

B. Project Description and History

The owner, Dr. Milan S. Chakrabarty, proposes to build a public storage facility and medical office building that will occupy the entire site. The Riverside County Planning Department previously approved the change of land use designation from rural residential to commercial retail (General Plan Amendment No. 903). The owner's agent, Donald L. Richart, contacted the author in June 2010 and requested a habitat assessment of the subject property.

C. MSHCP Status

The County Board of Supervisors adopted the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) and certified the EIR/EIS on 17 June 2003. The County received its Section 10(A) incidental take permit from the US Fish and Wildlife Service (USFWS) on 22 June 2004. Under this agreement, habitat assessments are required for some 40 covered species. If a site contains potential habitat for any of these species, focused surveys and mitigation may be required.

The Riverside County Integrated Plan (RCIP) website shows that APN 476-010-010 falls within the mapped survey area for one species, the burrowing owl. The purpose of the Phase I habitat assessment is to determine if the project site includes potential habitat for this species. County guidelines also require a discussion of vernal pools, wetland, riparian habitat, jurisdictional waters, and fairy shrimp habitat (if any).

SECTION III. METHODOLOGY AND PERSONNEL

A. Methods

This report meets all requirements for a habitat assessment, as defined in the biological survey guidelines published by the Riverside County Environmental Programs Department (EPD) as of the date of this survey.

Background research included a search of element records for the Winchester Quadrangle through the California Natural Diversity Data Base (CNDDDB). The MSHCP, RCLIS, and RCIP databases also were consulted. Other species records were obtained from reference books, field guides, and unpublished biological reports and notes. Plant community designations are based on Holland (1986), and plant names follow Munz (1974). Soil descriptions are based on maps published by the USDA Soil Conservation Service (1971). Aerial photographs taken in 1996, 2004, and 2007 were visually inspected. USFWS and the California Department of Fish and Game (CDFG) were contacted as required.

Field work consisted of 4 man-hours of observation starting at 10 AM on 19 June 2010. The day was mostly clear, with patchy high clouds and air temperatures ranging from 83° to 88°F (28° to 31°C). Binoculars were used to aid in identification of birds. No traps, pitfalls, bait stations, or other wildlife collection devices were used. The observers walked the site boundaries and then walked transects through the interior of the site, taking notes and collecting plant specimens as needed. A buffer zone surrounding the parcel was searched visually to the extent possible without entering private property.

B. Personnel

The study was conducted by Joan R. Callahan with the assistance of Stephen Compton. Dr. Callahan has been an environmental consultant in Riverside and San Bernardino Counties since 1990. She has a Ph.D. in zoology from the University of Arizona, and has published several related books (e.g., *Biological Hazards*, Greenwood Publishing, 2002; *Emerging Biological Threats*, ABC-CLIO 2009). She has conducted biological surveys for the California Parks Department, the USGS Biological Resources Division, the Riverside County Transportation Department, and many local environmental firms and real estate developers.

Stephen Compton has participated in biological field surveys in Riverside, San Bernardino, and Orange Counties on a part-time basis since 1991. His clients and employers for related work have included Tetra Tech, RCA Associates, and Thomas Olsen Associates.

SECTION IV. RESULTS

A. Existing Plant Communities and Wildlife Habitat

RCLIS classifies this parcel as 100% grassland (see Attachment E-5, Biological Resources Map). At the time of the field survey on 19 June 2010, site conditions agreed with the County map, except that the entire site had been deeply disked in May 2010. Any biological resources that may have been present were obliterated at that time (Attachment E-6, Site Photographs). Additional photographs are available on request, but they all look about the same.

The intermittent streambed shown on the map was still visible in June 2010, but it was dry and had also been disked. No wetland vegetation or soil characteristics were observed. This shallow watercourse appears to drain the site to a culvert that passes under Winchester Road. In March 2010, before diskings, the site supported ruderal/non-native grassland, with no evidence of recent ponding or wetland habitat (M. Richard, personal communication).

One of the soils mapped in the site vicinity, Monserate sandy loam, has very slow permeability due to a hardpan layer at a depth of about 10 to 36 inches (25 to 91 cm) (USDA 1971). Soil with this type of subsurface layer is one of the prerequisites for the formation of vernal pools. However, since repeated deep diskings has disturbed the soil profile and no basin is apparent, it is unlikely that vernal pools have been present in recent years.

B. List of Species Observed

Table 1 lists plant and animal species that were detected during the field survey. The list is short because of the highly disturbed condition of the site. The only ground squirrel observed on the site was dead, and the only birds observed were either flying over the site or perched in shrubs just outside the site boundary.

C. Sensitive Species Expected on Site

Sensitive species (also called special-status species) include all animal and plant species listed by a Federal, state, or local resource agency as endangered, threatened, rare, "of special concern," or otherwise protected or tracked.

No sensitive species were observed during the field survey, and none are expected to occupy the site, due to its highly disturbed condition. A number of sensitive animal and plant species are known to occur in or near the Winchester Quadrangle, but most require habitat conditions that do not exist on this site, such as riparian vegetation, coastal sage scrub, surface water, or specific soil types.

D. Agency Comments

USFWS and CDFG were contacted as required by EPD reporting guidelines, but neither agency has yet responded with any concerns regarding this project. If comments are received later, they will be forwarded to the County and the project proponent as an addendum to this report.

E. Biological Report Summary Sheet

A completed copy of the County's Attachment E-3 is appended to this report.

SECTION V. HABITAT ASSESSMENT

The conclusions stated herein are based on (1) the Western Riverside County MSHCP, (2) the California Native Plant Society's online *Inventory of Rare and Endangered Plants*, (3) the standard Phase I survey protocol for the burrowing owl (California Burrowing Owl Consortium 1993 and Riverside County EPD 2006), and (4) the principles of biogeography and ecology.

The MSHCP provides the following general instructions for preparation of habitat assessments:

"The habitat assessment shall include information on the habitat and soils present onsite, date of habitat assessment, precipitation data for that year and a recommendation as to whether focused surveys are necessary, photographs and location map if the species were found."

A. Burrowing Owl (*Speotyto cunicularia*)

The most recent edition of the burrowing owl survey protocol (Riverside County EPD 2006) states, in part:

"Burrowing owl habitat includes, but is not limited to, native and non-native grassland, interstitial grassland within shrub lands, shrub lands with low density shrub cover, golf courses, drainage ditches, earthen berms, unpaved airfields, pastureland, dairies, fallow fields, and agricultural use areas. Burrowing owls typically use burrows made by fossorial...mammals, such as ground squirrels (*Spermophilus beecheyi*) or badgers (*Taxidea taxus*). They often utilize manmade structures, such as earthen berms; cement culverts; cement, asphalt, rock, or wood debris piles; or openings beneath cement or asphalt pavement."

There are records of burrowing owls in the Winchester area, but only where required habitat conditions are present. Specifically, this project site has no cover objects or existing burrows, and it is surrounded by roads and developed areas. Also, since the site is deeply disked or grubbed at least once or twice a year, any burrows would be destroyed in the process. In short, the potential of this site as burrowing owl habitat is minimal.

B. Southwest Area, Subunit 5 Planning Species and Issues

The EPD biological policies and procedures do not require a discussion of MSHCP planning species for the subunit in which a project is located, other than those species identified by the Conservation Summary Report Generator. A few years ago, however, EPD asked the author to add information on all planning species to the habitat assessment report for another project. Since then, I have included this information to save time.

The MSHCP (Volume 1, Section 3) lists 13 planning species for the Southwest Area Plan, Subunit 5, French Valley/Lower Sedco Hills:

Bell's Sage Sparrow. This species requires sagebrush or shrub habitat, which is absent from the project site. Between diskings, the site supports ruderal weeds and non-native grassland.

California Horned Lark. This species may forage on the site from time to time, but no suitable nesting habitat is present. The site is small (5 acres), highly disturbed, and surrounded on three sides by roads and development.

Coastal California Gnatcatcher. This Federally threatened species requires coastal sage scrub habitat, which is absent from the site. Between diskings, it supports ruderal weeds and non-native grassland.

Swainson's Hawk. This species may forage on the site from time to time, but only when rodents or other prey are likely to be present. The site is small (5 acres), devoid of rodent burrows at present, and surrounded on three sides by roads and development.

Grasshopper Sparrow. This species prefers open fields and may forage on the site from time to time, but frequent disking makes it unsuitable for nesting. The site is small (5 acres), highly disturbed, and surrounded on three sides by roads and development.

Southern California Rufous-Crowned Sparrow. This species requires shrub habitat, which is absent from the project site. Between diskings, the site supports ruderal weeds and non-native grassland.

Quino Checkerspot Butterfly. This Federally endangered insect is associated with specific host plants, including dwarf plantain and possibly several others, including Coulter's snapdragon, red owl clover, and blue-eyed Mary. At the time of the June 2010 field survey, disking had removed all vegetation from the site.

Bobcat. MSHCP conservation objectives for this species are intended to maintain a core area and promote dispersal through the increasingly fragmented plan area. These cats have large home ranges and may pass through this region on occasion.

Table 1. Species Observed on Project Site (19 June 2010)

Common Name	Scientific Name	Sensitive	Comments
ANIMALS			
Red-Tailed Hawk	<i>Buteo jamaicensis</i>	No	1
Mourning Dove	<i>Zenaida macroura</i>	No	3
Black Phoebe	<i>Sayornis nigricans</i>	No	1
Common Raven	<i>Corvus corax</i>	No	2
House Finch	<i>Carpodacus mexicanus</i>	No	1
California Ground Squirrel	<i>Spermophilus beecheyi</i>	No	1 dead
Pocket Gopher	<i>Thomomys bottae</i>	No	Adjacent parcel
PLANTS			
<i>Family Asteraceae:</i>			
Prickly Lettuce	<i>Lactuca serriola.</i>	No	Non-native
Sunflower	<i>Helianthus sp.</i>	No	Native
Common Tarweed	<i>Hemizonia fasciculata</i>	No	Native
<i>Family Boraginaceae:</i>			
Fiddleneck	<i>Amsinckia intermedia</i>	No	Native
<i>Family Brassicaceae:</i>			
Shortpod Mustard	<i>Brassica geniculata</i>	No	Non-native
<i>Family Convolvulaceae:</i>			
Field Bindweed	<i>Convolvulus arvensis</i>	No	Non-native
<i>Family Euphorbiaceae</i>			
Thyme-Leaf Spurge	<i>Euphorbia serpyllifolia</i>	No	Native
<i>Family Fabaceae:</i>			
Pea	<i>Lathyrus sp.</i>	No	Native
(Continued)			

<i>Family Geraniaceae:</i>			
Storksbill	<i>Erodium botrys</i>	No	Non-native
<i>Family Labiatae:</i>			
Chia	<i>Salvia columbariae</i>	No	Native
<i>Family Polygonaceae:</i>			
Curly Dock	<i>Rumex crispus</i>	No	Non-native
<i>Family Solanaceae:</i>			
Jimson Weed	<i>Datura meteloides</i>	No	Native
<i>Family Poaceae:</i>			
Brome Grass	<i>Bromus</i> sp.	No	Non-native
Wild Oat	<i>Avena barbata</i>	No	Non-native
Other grasses, not identified (dry)			

B. Southwest Area, Subunit 5 Planning Species and Issues (Continued)

Los Angeles Pocket Mouse. Although habitat requirements for this species are not well understood, it is often associated with litter piles, rocks, or other cover objects in grassland, scrub, and relatively open chaparral habitat. This site is not suitable due to annual disking.

Western Pond Turtle. This species requires permanent surface water, which is not present on this site.

Long-Spined Spineflower, Munz’s Onion, and Palmer’s Grapplinghook. Aside from the disking history, these three plant species require clay soils and other specific habitat characteristics that are not present on the site.

C. Other Required Elements

The MSHCP (Section 6.1.2) also requires a habitat assessment for the following environmental elements and sensitive species:

1. Vernal Pools and Other Wetlands. As discussed above, one soil mapped in the site vicinity has a subsurface hardpan layer, but no evidence of vernal pools or other wetland was found. As a result, there is no habitat for any of the vernal pool and wetland species listed in the MSHCP.

2. Fairy Shrimp. Since the site has no vernal pools, stock ponds, or other surface water, it lacks potential habitat for fairy shrimp, including the three species for which the County requires habitat assessments (*Streptocephalus wootoni*, *Branchinecta lynchi*, and *Lindleriella occidentalis santarosae*).

3. Riparian Habitat or Jurisdictional Waters. Although a small ditch mapped as an intermittent blue-line stream crosses the parcel, there is no riparian habitat. Thus, the 34 riparian/riverine species listed in Section 6.1.2 of the MSHCP cannot occupy the site.

The County's biological report guidelines also require a habitat assessment for the following additional environmental elements:

4. Coastal Sage Scrub. No coastal sage scrub habitat is present on the site.

5. Oak Trees. No oak trees are present on the site.

D. Urban/Wildlands Interface Guidelines

Development in proximity to the MSHCP Conservation Area requires compliance with Riverside County Urban/Wildlands Interface Guidelines (MSHCP Section 6.1.4), as summarized below (if applicable):

1. The project must not adversely alter the quantity or quality of runoff discharged to the MSHCP Conservation Area. Storm drains, detention basins, retaining walls, or similar devices may be used.

2. Any toxic chemicals used on the project site, such as pesticides or solvents, should not be discharged to the Conservation Area.

3. Night lighting should incorporate shielding or other design measures to direct the light away from the Conservation Area.

4. If noise levels during or after construction will exceed residential noise standards, the project should incorporate setbacks, berms, or walls as needed to minimize impacts to the Conservation Area.

5. Landscaping should avoid the use of invasive, non-native plant species. The MSHCP contains a three-page list of plants that the landscape designer should avoid using if the project is adjacent to the Conservation Area.

6. Barriers (fences, walls, signs, landscaping, or other devices) may be required in some cases to protect the Conservation Area from domestic animals or unauthorized public access.

7. Manufactured slopes (if any) must not extend into the Conservation Area.

SECTION VI. IMPACT ANALYSIS AND RECOMMENDATIONS

Although EPD does not require a discussion of project-related biological impacts for a habitat assessment report, it does require inclusion of Attachment E-4, which summarizes biological impacts. Thus, it seems appropriate to include a brief explanation.

A. Cumulative Biological Impacts

The proposed development will eliminate the value of this property as raptor foraging habitat, thus contributing to a trend that has impacted much of southern California. Since the site is small and already highly disturbed, the cumulative impact is not significant by CEQA criteria.

B. Impacts to Sensitive Biological Resources

There is no evidence of seasonal wetland or vernal pool habitat on this site, but the intermittent watercourse that crosses the south end of the parcel becomes deeper to the south where it enters the culvert under Winchester Road. It is assumed that the engineering plans for this project will include appropriate measures for flood control and hazardous waste management.

C. Further Studies Recommended

No focused surveys, wetland delineation, or other studies are recommended.

D. Level of Significance Checklist

A completed copy of the County's Attachment E-4 is appended to this report.

SECTION VII. REFERENCES AND OTHER DOCUMENTATION

A. Bibliography and References Cited

Burt, William H., and Richard P. Grossenheider. 1980. *A Field Guide to the Mammals: North America North of Mexico*. Boston: Houghton Mifflin.

California Burrowing Owl Consortium. 1993. Burrowing Owl Survey Protocol and Mitigation Guidelines, April 1993.

California Department of Fish and Game. *Natural Diversity Data Base, Winchester Quadrangle*. Sacramento: California Department of Fish and Game.

Holland, R. F. 1986. *Preliminary Descriptions of the Terrestrial Natural Communities of California*. Sacramento: California Resources Agency, Department of Fish and Game, 156 pp.

Munz, Philip A. 1974. *A Flora of Southern California*. Berkeley: Univ. of California Press.

Niehaus, Theodore F., and Charles L. Ripper. 1976. *A Field Guide to Pacific States Wildflowers*. Boston: Houghton Mifflin.

Peterson, Roger Tory. 1990. *A Field Guide to Western Birds*. Boston: Houghton Mifflin.

Riverside County. 2004. *Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), Final Documents*.

Riverside County Environmental Programs Department. 2004. *Biological Policies and Procedures*. Updated 20 October 2004 (latest version available as of April 2008).

Riverside County Planning Department. 1993. Riverside County Oak Tree Management Guidelines. Approved by the Board of Supervisors 2 March 1993.

<http://www.tlma.co.riverside.ca.us/planning/content/devproc/guidelines/oak_trees/oak_trees.html>

Stebbins, Robert C. 1985. *A Field Guide to Western Reptiles and Amphibians*. Boston: Houghton Mifflin.

USDA Soil Conservation Service. 1971. *Soil Survey, Western Riverside Area, California*. Washington, DC: US Department of Agriculture.

B. Persons Contacted

The following persons were contacted for information regarding various aspects of this project: Donald L. Richart, agent; Michael Richard, Riverside County EPD; Robin Maloney-Rames, CDFG; and Doreen Stadlander, USFWS.

C. Herbaria and Collections Visited

(Not applicable)

D. Disposition of Voucher Specimens

(Not applicable)

E. Site Photographs

Two color photographs of the site are appended as Attachment E-6.

SECTION VIII. DISCLAIMER

This habitat assessment was prepared in accordance with the most recent Riverside County biological reporting guidelines and procedures that have been published or otherwise made available to the author prior to the date of this report. The author will correct any confirmed errors, omissions, or deviations from said County guidelines if so notified within 180 days after the date of submission of this report. The scope of this report is limited to the data and analysis specified in said County guidelines, and the result is a largely subjective and qualitative assessment of biological resources present on the subject property at the time of the site visit(s).

The author makes no warranties, either express or implied, regarding the accuracy or fitness of this document for a particular purpose. The author has no permitting authority, and is not responsible for any decisions made by the County or by any other agency or individual as a result of (or in spite of) the contents of this report. By final acceptance of this habitat assessment report, the project proponents, the County, and all parties agree to indemnify and hold harmless the author, her associates, heirs, successors and assigns, from any and all liability arising from or related to this habitat assessment or any associated project or study. This disclaimer supersedes any prior oral or written agreements.

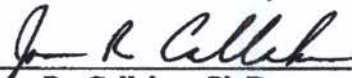
SECTION IX. CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

This certification refers to a habitat assessment conducted in June 2010 for APN 476-010-010, located in Murrieta, Riverside County, California. The report and certification are not valid if any page of this document has been replaced, removed, added, or altered from its original form without the author's consent.

DATE: 6/24/2010 SIGNED: 
Joan R. Callahan, Ph.D.

Fieldwork Performed By:


Joan R. Callahan, Ph.D.


Stephen B. Compton

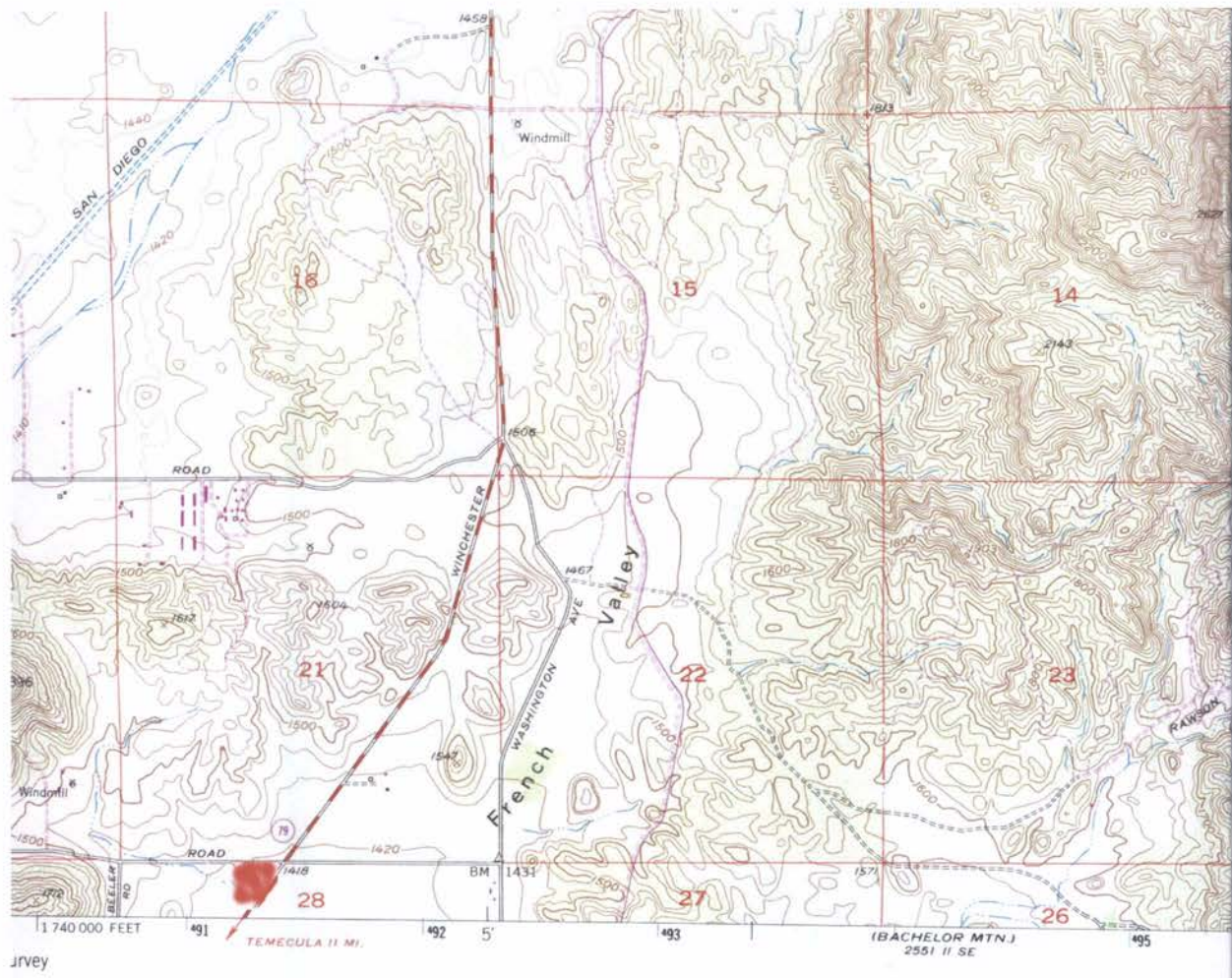


Figure 1. Site Location on USGS Winchester Quadrangle

NOTIFICATION TO COUNTY OF RIVERSIDE OF CONSULTANT TO PREPARE ARCHAEOLOGICAL OR BIOLOGICAL REPORT

Notification to the County of Riverside is hereby made that D. Richart & M. Chakrabarty (project sponsor), has entered into a contract with Joan R. Callahan, Ph.D. (consulting firm) for the preparation of an X (*) biological, (*) archaeological report to be submitted to the County of Riverside in satisfaction of a request made by the County for additional environmental information prior to completion of an environmental assessment for the property and development proposal, described below:

Assessor's Parcel Number(s) (APN) [*Required]: 476-010-010

Development Proposal Case Number(s) [*Required]: HANS 02015

In accordance with the notice of additional environmental information provided by the County, the scope of work for the report will be as follows:

For Archaeological Reports (Standardized - Check those that apply): Phase 1 Phase 2 Phase 3 Phase 4

For Biological Reports (check all that apply):

- General Biological Assessment
Jurisdictional Waters/Wetlands Delineation
Habitat Assessment for species burrowing owl
Rare plant survey for species
Focused survey for species
Other: Describe standard (riverine, etc.)

Both the Consultant and the project sponsor acknowledge that the consultant may not submit reports to the County for use in completing initial environmental assessments or EIRs for development proposals unless the consultant has been previously qualified by the County to submit such reports and unless the consultant has entered into a Memorandum of Understanding (MOU) with the County governing the preparation and handling of such reports.

Project sponsor acknowledges that the report for which notification is hereby made is the:

X 1st or (specify number) archaeological, or biological report for which contractual arrangements have been made under the direction of the project sponsor for the property described above.

PROJECT SPONSOR AND CONSULTANT are to execute the following:

I hereby affirm that all information provided above, is, to the best of my knowledge, true, correct, and complete.

Project sponsor: [Signature] Dated: 6/18/10

Consultant: [Signature] Dated: 6/18/10

Note: Send Attachment D at the time contract is entered and with the final Biological or Archaeological Report. A Riverside County Planning Department "Date Received" stamp hereon shall acknowledge receipt of this Notice by the County. * Required for project processing. If case number not known, contact County Planning Dept. If no development case has yet been filed with County, write "No Case". An additional County fee may be assessed to project if no case number is provided on this form.

Last Revised January 2001

BIOLOGICAL REPORT SUMMARY SHEET

(Must be attached to biological report)

Applicant Name:	M. S. Chakrabarty and D. L. Richart
Assessor's Parcel Number(s) (APN):	476-010-010
APN cont. :	
Site Location: Section:	28
Township:	6S
Range:	2W
Site Address:	Winchester Rd (Hwy 79) at Keller Rd, Murrieta
Related Case Number(s):	HANS 02015
PDB Number:	

Check ITEM(S) Habitat Assessment	Check ITEM(S) * Focused Survey	SPECIES or HABITAT OF CONCERN	(Circle whether a potential for significant impact to species or resource exists **)	
			Yes	No
		Arroyo Southwestern Toad	Yes	No
x		Drainages/Waters of U.S.	Yes	No
		Coachella Valley Fringed-Toed Lizard	Yes	No
		Coastal California Gnatcatcher	Yes	No
x		Coastal Sage Scrub	Yes	No
		Delhi Sands Flower-Loving Fly	Yes	No
		Desert Pupfish	Yes	No
		Desert Slender Salamander	Yes	No
		Desert Tortoise	Yes	No
		Flat-Tailed Horned Lizard	Yes	No
		Least Bell's Vireo	Yes	No
x		Oak Woodlands	Yes	No
		Quino Checkerspot Butterfly	Yes	No
x		Riverside Fairy Shrimp	Yes	No
		Santa Ana River Woollystar	Yes	No
		San Bernardino Kangaroo Rat	Yes	No
		Slender Horned Spineflower	Yes	No
		Stephens' Kangaroo Rat	Yes	No
x		Vernal Pools	Yes	No

Check ITEM(S) Habitat Assessment	Check ITEM(S) * Focused Survey	SPECIES or HABITAT OF CONCERN	(Circle whether a potential for significant impact to species or resource exists **)	
			Yes	No
x		Wetlands	Yes	<input checked="" type="radio"/> No
x		Riparian Habitat	Yes	<input checked="" type="radio"/> No
x		Burrowing Owl	Yes	<input checked="" type="radio"/> No
		Bighorn Sheep	Yes	No
		Red-legged Frog	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No
		Other	Yes	No

* Focused Survey: a) Survey on a listed species performed per USFWS or CDFG protocol by licensed individual (i.e., CaGn, SKR, QCB), OR b) For non-listed spp., survey performed per protocol recognized by USFWS or CDFG, or other applicable agency (i.e., Burrowing Owl), OR c) For jurisdictional waters, wetlands, & riparian areas, following protocol of U.S. Army Corp of Engineers.

** Species of concern are any unique, rare, endangered, or threatened species; species used to delineate wetlands and riparian corridors; and any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened or candidate species by either State or Federal regulations, or those tracked by the California Department of Fish and Game Natural Diversity Data Base (NDDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report.

J. R. Callahan, Ph.D.
Signature and Title

6/23/2010
Date Report Prepared

10(a) Permit Number (if applicable)

10(a) Permit Expiration Date

Attachment E-3 Page 2 of 2

County Use Only	
Received by: _____	Date: _____
PD-B# _____	Related Case #: _____

E-3.2

**LEVEL OF SIGNIFICANCE CHECKLIST
FOR BIOLOGICAL RESOURCES**

(Must be attached to report)

APN *: 476-010-010 Riverside County Case No. *: PAR01274 EA
Number: _____ HANS 02015

Wildlife & Vegetation

Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
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(Check the level of impact that applies to the following questions)

- a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan? X
- b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)? X
- c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U. S. Wildlife Service? X
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites? X
- e) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service? X
- f) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act or Section 1600 of the California Fish and Game Code (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? X
- g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? X
- h) Create any impact which is individually limited, but cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects as defined in Section 15130 (14 Calif. Code of Regs). X

* Required

LEVEL OF SIGNIFICANCE CHECKLIST
FOR BIOLOGICAL RESOURCES

Findings of Fact:

See report

Proposed Mitigation:

See report

Monitoring Recommended:

None, see report

Prepared By: Joan R. Callahan, Ph.D. Date: 22 June 2010

<i>County Use Only</i>	
Received by: _____	Date: _____
PD-B# _____	Related Case #: _____



 Ruderal/Non-Native Grassland

Attachment E-5. Biological Resources Map (APN 476-010-010)



Attachment E-6. Site Photographs (APN 476-010-010)